

NAME _____

PERIOD _____ DATE _____

Wkst #3

1-8all

ROLE OF b

For each of the following quadratic functions

- State whether the graph opens upwards or downwards
- Give the y-intercept
- Find the axis of symmetry
- State whether the graph will have a minimum or maximum value
- Find the minimum or maximum value
- Give the vertex of the graph
- Give the point of symmetry
- Find the zeros (if possible)
- Graph the quadratic

1) $y = -x^2 + 2x$

2) $y = 2x^2 + 4x$

3) $y = x^2 + 2x - 8$

4) $y = 2x^2 - 7x + 6$

5) $y = -3x^2 + 4x - 1$

6) $y = 4x^2 - 12x + 9$

7) $y = 3x^2 - 2x - 1$

8) $y = x^2 + 3x - 3$